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SPECIFICATION FOR SLIDE RAILS FOR USE IN ABATTOIRS

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Indian Standard

SPECIFICATION FOR SLIDE RAILS FOR USE IN ABATTOIRS

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 11 September 1972, after the draft finalized by the Meat and Meat Products Sectional Committee had been approved by the Agricultural and Food Products Division Council.

0.2 Slide rails are fixed in abattoirs and meat processing factories for hanging and moving on shackle chains and gambrels the carcasses of animals after slaughter so as to avoid contamination of the carcasses from floor. This also ensures ease in further examination and processing of the carcasses.

0.3 Recently, the indigenous production of abattoir tools and equipment like gambrels, shackle chains and rails has taken a favourable turn and a sizeable proportion of the equipment is being fabricated in the country. The formulation of Indian Standards for the equipment would, therefore, encourage quick development of this industry and would help in the manufacture of good quality tools and equipment.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard specifies material, dimensions and other requirements for slide rails for use in abattoirs.

2. SECTION

2.1 The section of the rails shall be either flat, round or pipe to suit overhead tracking system.

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*Rules for rounding off numerical values (*revised*).

3. MATERIAL

3.1 The flat section rails shall be made from mild steel conforming to IS : 1731-1971*. The round section rails shall be made from mild steel conforming to IS : 1732-1971†. The pipe section rails shall be of heavy duty block pipe conforming to the requirements given in IS : 1239 (Part I)-1968‡.

3.2 General requirements relating to material shall be as given in IS : 1387-1967§.

4. DIMENSIONS

4.1 The dimensions of the rails shall be as given in Table 1.

TABLE 1 DIMENSIONS OF SLIDE RAILS

Sl No.	Section	Dimensions	Weight
(1)	(2)	(3)	(4)
		mm	kg/m
i)	Flat	65 × 12·0	6·12
		75 × 12·0	7·07
ii)	Round bar	36	7·99
		50	15·4
iii)	Pipe	Nominal bore-40 Maximum O.D.-48·8 Nominal thickness-4·05	4·43
		Nominal bore-50 Maximum O.D.-60·8 Nominal thickness-4·5	6·17

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*Dimensions for steel flats for structural and general engineering purposes (*first revision*).

†Dimensions for round and square steel bars for structural and general engineering purposes (*first revision*).

‡Mild steel tubes, tubulars and other wrought steel fittings: Part I Mild steels tubes (*second revision*).

§General requirements for the supply of metallurgical materials (*first revision*).

4.2 The sections and dimensions of rails suitable for different operations are given in Table 2 for guidance.

TABLE 2 SUITABILITY OF RAILS OF VARIOUS SECTIONS AND DIMENSIONS FOR DIFFERENT OPERATIONS

SL No. (1)	SECTION (2)	DIMENSIONS (3) mm	SUITABILITY (4)
i)	Flat	65 × 12·0	Killing floors, coolers and freezers; despatch platforms; general purposes
ii)	Round bar	50 dia	
iii)	Pipe	60·8 O.D.	
iv)	Flat	75 × 12·0	Cattle bleeding
v)	Round bar	50 dia	
vi)	Pipe	48·8 O.D.	Hog bleeding; sheep bleeding
vii)	Round bar	36 dia	

5. DESIGNATION

5.1 The rails shall be designated by the section, and weight in kilograms per metre.

Example:

A rail of flat section with 6·12 kg/m should be designated as:

Flat-6·12.

6. FINISH AND WORKMANSHIP

6.1 The rails shall be reasonably free from twist, camber and other defects which may be detrimental in proper functioning of the rail.

6.2 The rails shall be given a rust-proof coat of black paint and then greased.

7. MARKING AND PACKING

7.1 Marking

7.1.1 The rails shall be marked with the following information:

a) Manufacturer's name or trade-mark, if any;

b) Year of manufacture; and

c) Batch or code number.

7.1.1.1 The marking shall be done at an appropriate and visible place.

7.1.2 Each rail may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

7.2 Packing — The rails shall be packed for safe handling in transit as agreed to between the manufacturer and the purchaser.

8. SAMPLING

8.1 The method of drawing representative samples of the material and the criteria for conformity shall be as given in Appendix A.

APPENDIX A

(*Clause* 8.1)

SAMPLING OF SLIDE RAILS

A-1. SCALE OF SAMPLING

A-1.1 Lot — In any consignment all the slide rails of the same type, shape and size manufactured from the same material under relatively similar conditions of manufacture shall be grouped together to constitute a lot.

A-1.2 For ascertaining the conformity to the requirements of this specification the test shall be carried out separately for the each lot.

A-1.3 The number of slide rails to be sampled from a lot, for ascertaining conformity to the requirements of this specification shall be according to col 2 of Table 3.

A-1.4 The slide rails shall be selected at random from the lot and for this purpose a random number table as agreed to between the purchaser and the supplier shall be used. If such a table is not available, the following procedure shall be adopted.

A-1.4.1 Starting from any slide rail in the lot count them as 1, 2, 3,......, up to *r* in a systematic manner, where *r* is equal to the integral part of *N*/*n*, *N* being the total number of slide rails in the lot, and *n* the number of slide rails to be selected (*see* Table 3). Every *r*th slide rail thus counted shall be separated until the requisite number of slide rails to be obtained from the lot to give the sample for the test.

TABLE 3 SCALE OF SAMPLING AND PERMISSIBLE NUMBER OF DEFECTIVE SLIDE RAILS

(*Clause* A-1.3)

No. of Slide Rails in a Lot	For Visual and Dimensional Tests		For Tests Other than Visual and Dimensional	
N	No. of Slide Rails in the Samples *n*	Permissible Number of Defective Slide Rails	Number of Slide Rails in the Sample	Permissible Number of Defective Slide Rails
(1)	(2)	(3)	(4)	(5)
Up to 100	5	0	2	0
101 to 300	13	1	3	0
301 to 500	32	3	5	0
501 to 1 000	50	5	8	1
1 001 and above	80	7	13	1

A-2. NUMBER OF TESTS AND CRITERIA FOR CONFORMITY

A-2.1 Tests for Visual and Dimensional Characteristics — The slide rails selected at random according to **A-1.4** shall be examined for the visual and dimensional characteristics. A slide rail failing to satisfy any one or more of these requirements shall be considered as conforming to the requirements for these characteristics if the number of defective slide rails in the sample does not exceed the number given in col 3 of Table 3..

A-2.2 Tests for Other than Visual and Dimensional Characteristics — If the lot conforms to the requirements for visual and dimensional tests, a sub-sample of size given in col 4 of Table 3 shall be taken from the slide rails selected in **A-2.1** each of the slide rail in the sub-sample shall be tested for the requirements of characteristics other than visual and dimensional. A slide rail not satisfying any one or more of these requirements shall be regarded as defective. The lot shall be considered to conform to these requirements if the number of defective slide rails in the sub-sample does not exceed the number given in col 5 of Table 3.